

**Result certificate #028822:**

**Sample**

Sample: 13-00920  
Name: Dog's Paradise Charley  
Breed: Australian labradoodle  
Reg. number: ALAEU-1715  
Microchip: 528210002840289  
Date of birth: 03-07-2012  
Sex: male  
Date received: 24.01.2013  
Sample type: buccal swab

**Detection of insertion in RSPO2 gene  
influencing furnishings or improper coat in  
several dog breeds by PCR analysis**

**Customer**

AMJ de Koning Trum  
Biezenmortelsestraat 2  
5074 PD Biezenmortel  
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**Result: Based on mutation examination genotype was determined ins/ins**

**Explanation**

Presence or absence of 167 bp insertion in 3'UTR region RSPO2 gene influencing furnishings in Brussels Griffon, Chinese Crested, Dachshund, German Wirehaired Pointer and Soft-Coated Wheaten Terrier and influencing improper coat (IC) in Portuguese Water Dog (PWD), Labradoodle and Havana Silk Dog was examined.

Furnishings is inherited in dominant trait. It means that dog with furnishings has an insertion in one or in both alleles of RSPO2 gene (genotypes wt/ins or ins/ins). Dog without furnishings has wild type alleles (wt/wt) in RSPO2 gene.

IC in PWD, Labradoodle and Havana Silk Dog is inherited as an autosomal recessive trait. It means that IC will develop only in individuals, who inherit the wild type allele from both parents (wt/wt). Heterozygous individuals (wt/ins) will be carriers of phenotype symptoms of IC. Individuals carrying both inserted alleles (ins/ins) have standard furnishings. If two carriers are mated, the litter will theoretically consist of 25 % offsprings with improper coat, 50 % will be carriers without IC phenotype symptoms and 25 % offsprings will have typical coat.

Method: SOP77

Report date: 01.02.2013

Responsible person: Mgr. Martina Šafrová, Laboratory Manager



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